

Fig. 1
Internet Peering Model

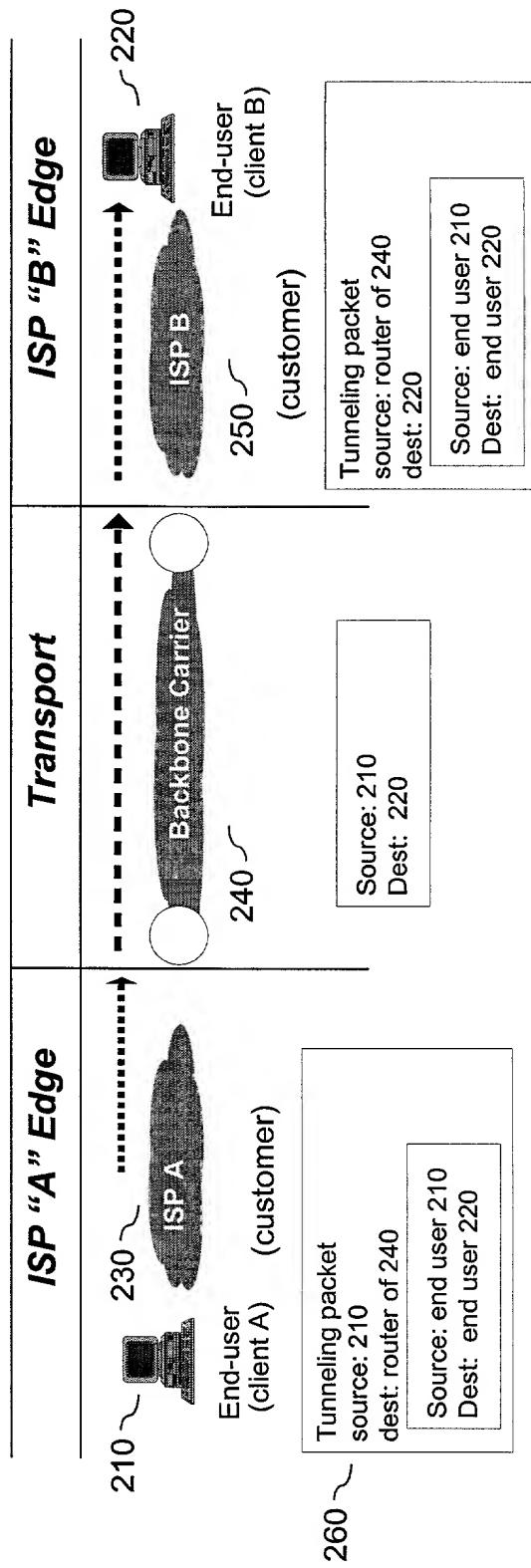


Fig. 2

METHOD AND SYSTEM FOR SENDING INFORMATION ON AN EXTRANET:

Inventors: Michael Gaddis et al.
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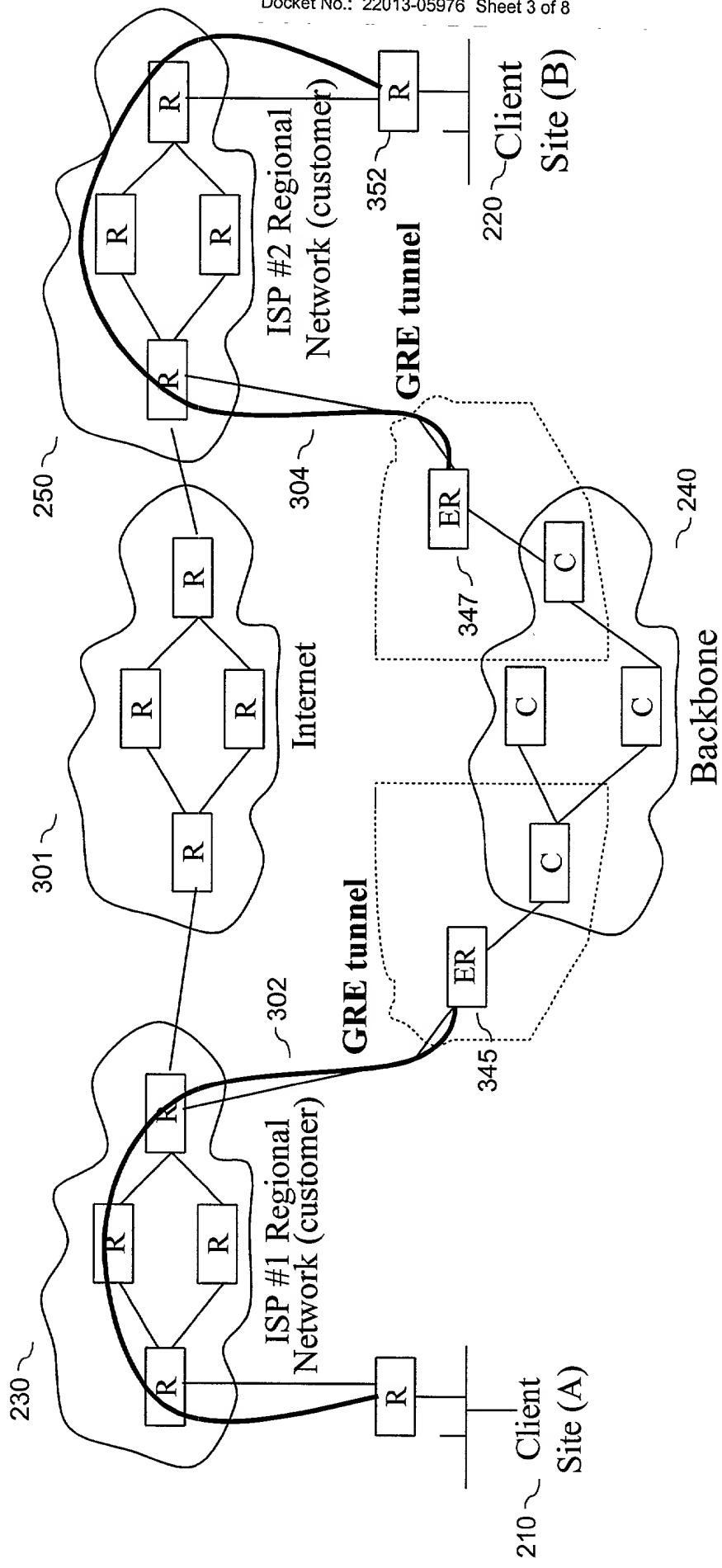


Fig. 3(a)

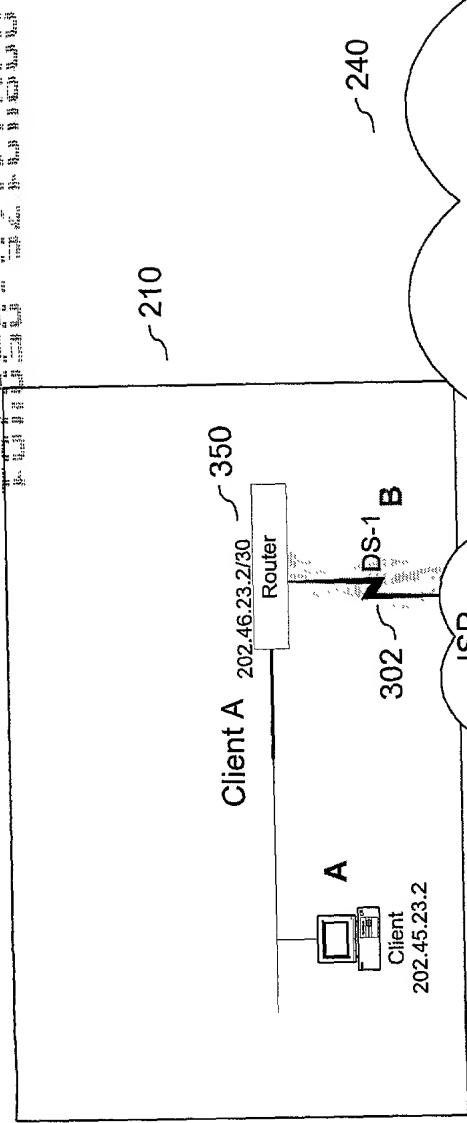


Fig. 3(b)

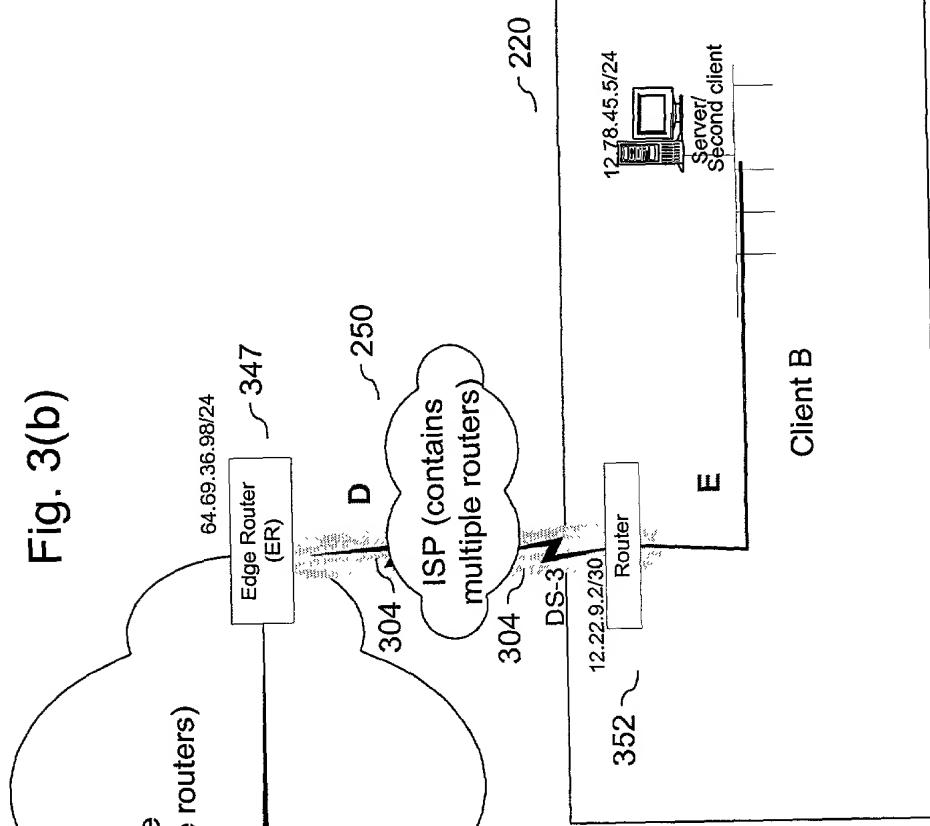


Fig. 3(c)

Packet from Client 202.45.23.2 to Server 12.78.45.5			
	Destination IP	Source IP	Payload
A	12.78.45.5	202.45.23.2	Data
B	64.69.35.98	202.46.23.2	Packet from point B
C	12.78.45.5	202.45.23.2	Data
D	12.22.9.2	64.69.36.98	Packet from point B
E	12.78.45.5	202.45.23.2	Data

402 ~ New Client ("Client A") requests service from backbone provider

404 ~ Client A sends backbone provider the following information:

- 1) subnet(s) that may be advertised to other clients
- 2) IP address of serial interface of router that connects to the local ISP.
- 3) If the client has a public AS# then the client sends the AS# to the backbone.

- Backbone provider configures a GRE tunnel and BGP session for Client A.
- A new IP address is allocated for the Client A on the backbone router for the GRE tunnel end point.
- A new subnet is assigned to the GRE tunnel to be used for the BGP peering session between Client A router and the backbone router.

406 ~

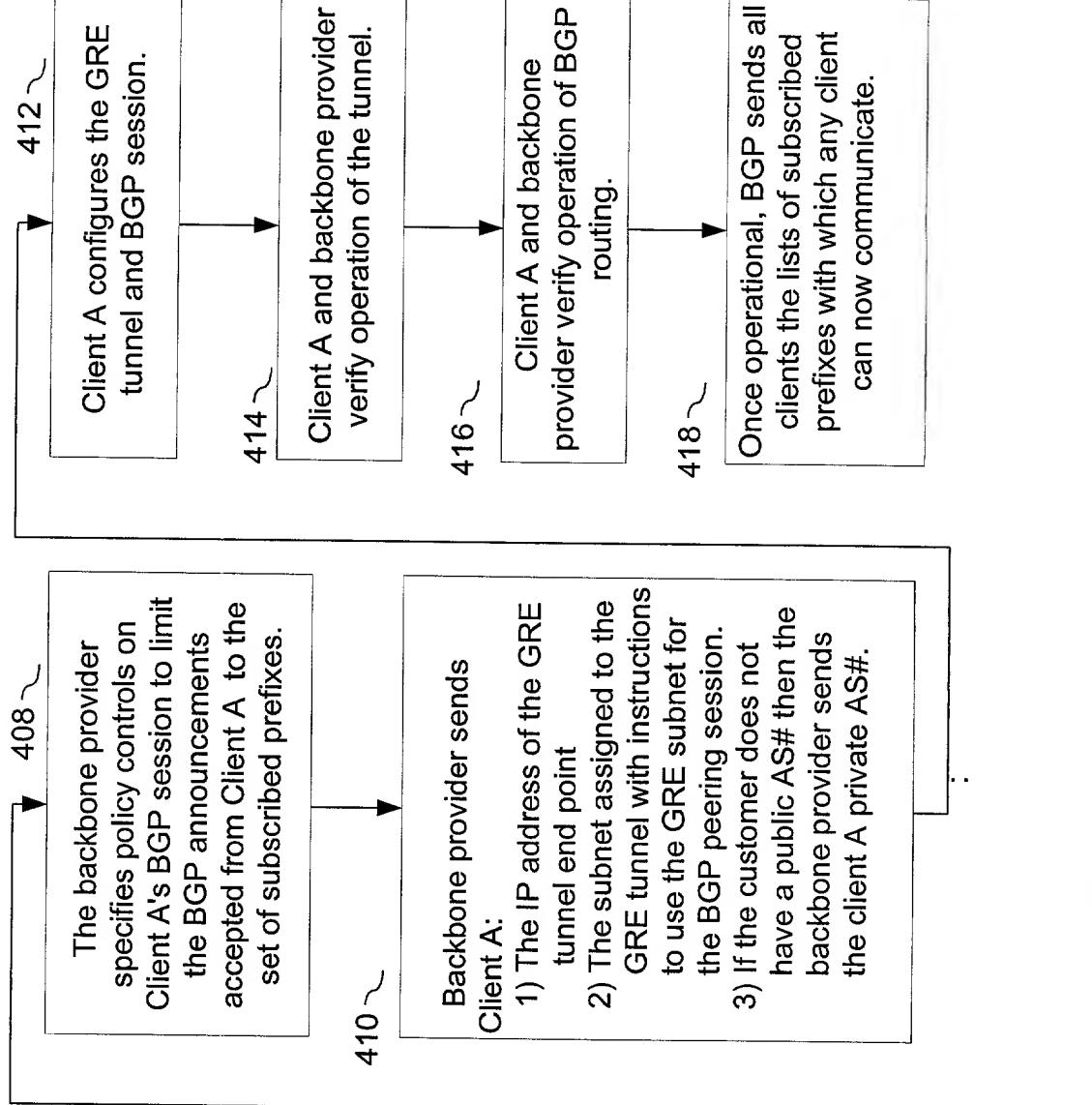


Fig. 4(a)
Provisioning

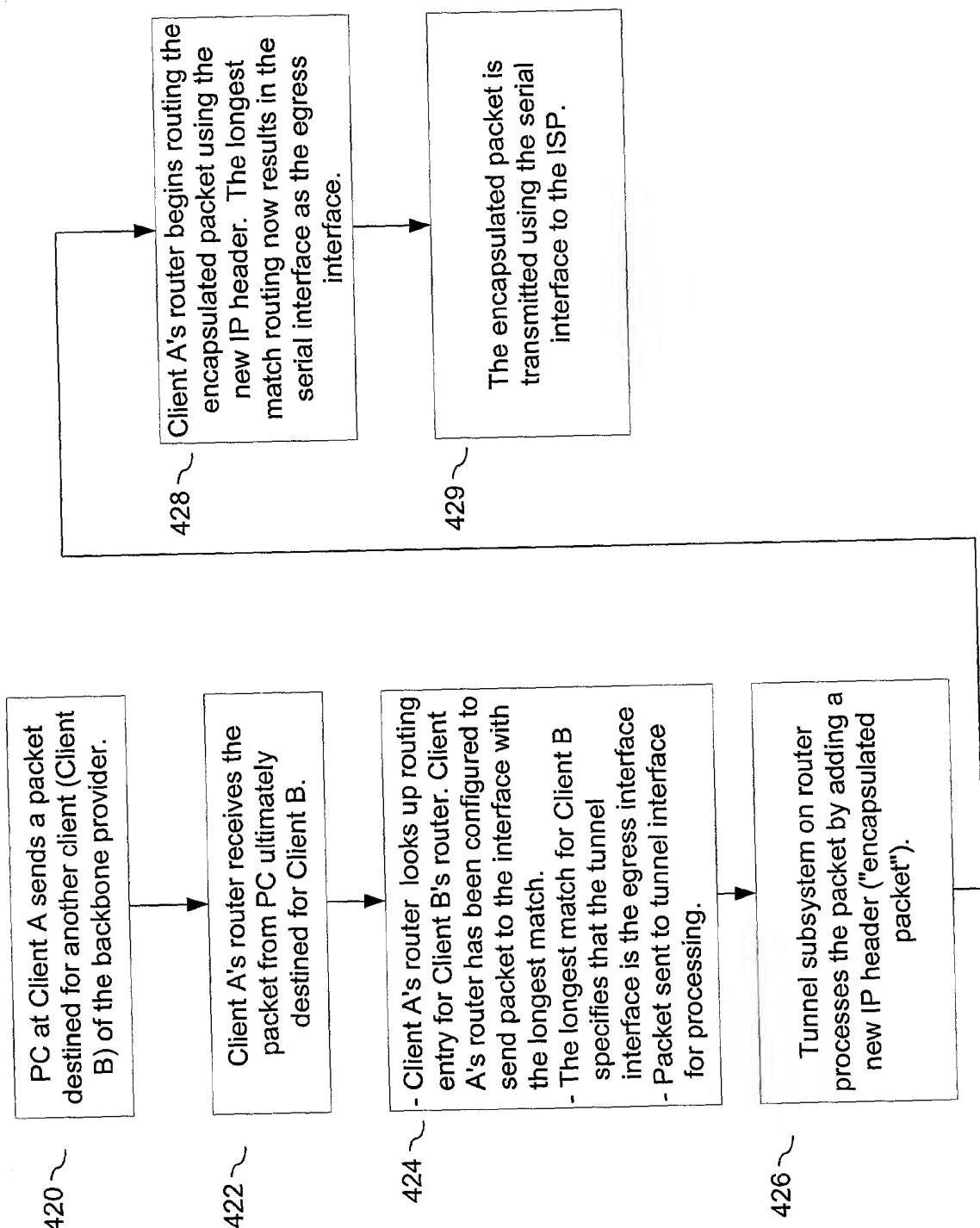


Fig. 4(b)
Routing on First Client Router

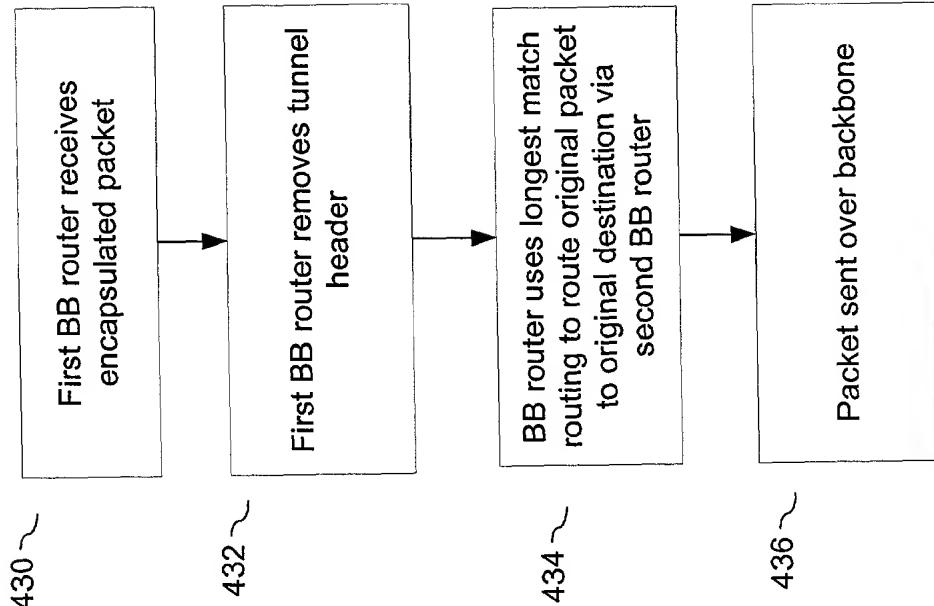


Fig. 4(c)
Routing on first
backbone edge
router

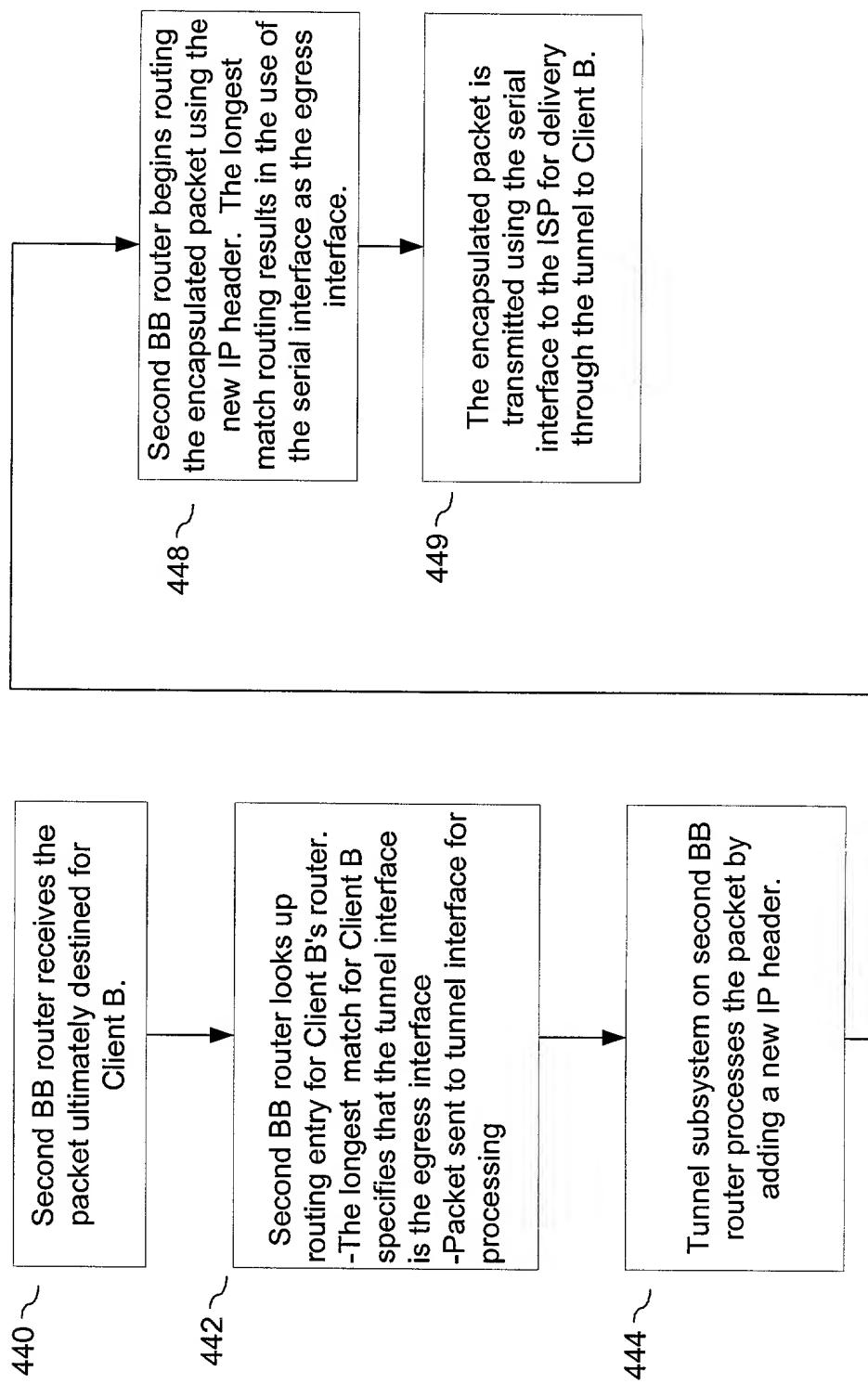


Fig. 4(d)
Routing on Second Client Router